Notice of Allowability	Application No.	Applicant(s)
	09/778,071	TAKEUCHI ET AL
	Examiner	Art Unit
	Jaworski Francis J.	3768
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communities. This application is su	h the correspondence address this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>RCE 4/18/07</u> .		
2. The allowed claim(s) is/are <u>8 - 9, 11 - 15, 17 and 19 - 20</u> .		
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	e been received. e been received in Application ocuments have been received	n No in this national stage application from the
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application. nitted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which gives 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers (b) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date	st be submitted. son's Patent Drawing Review 's Amendment / Comment or i	(PTO-948) attached in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	i.84(c)) should be written on the the header according to 37 CFF	e drawings in the front (not the back) of R 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Sur Paper No./N 7. ☑ Examiner's A	ormal Patent Application mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance
		Primary Examiner

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 4 – 7 and 10 non-elected without traverse in the response filed on July 18, 2003 have been cancelled.

The following is an examiner's statement of reasons for allowance:

Applicants' note that piezocomposites while lowering the intrinsic acoustic impedance of the ultrasound array have inferior dielectric properties (causing a reduction in drive voltage and sensitivities) and therefore pursue inventive improvements in association with single-crystal arrays: Inter alia fabrication in association with narrowed width flexible printed wiring configured to lead and connect the array electrodes and/or lower conductive resin layering of low acoustic impedance with (flexible printed) wiring in the contexts as claimed.

Mohr III et al US5923115 is directed inter alia to thinner flex circuit mounting but in the 'thickness' direction without consideration to thinner with respect to piezo member width relationship; Nix US6110314 uses a higher impedance conductive resin backing;

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Wakabayashi US5884627 and 6558323 and Shibamoto 7224104 are cited to complete

the record regarding conductive resin usages..

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Jaworski

Francis J. at telephone number 571-272-4738.

FJJ:fjj

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Primary Examiner